

DESIGN AND CONSTRUCTION GUIDELINES AND STANDARDS

DIVISION 7 • THERMAL & MOISTURE PROTECTION

07 45 00 • GUTTERS AND DOWNSPOUTS

SECTION INCLUDES

Gutters and Downspouts

RELATED SECTIONS

06 10 00 Rough Carpentry
07 20 00 Building Insulation
07 30 00 Asphalt Shingles
07 46 00 Prefinished Metal trim
33 00 00 Site Utilities

DESIGN

Seamless aluminum gutters should be sized to adequately manage the rain water collected by the roof and to properly fit the scale of the building.

Attach gutters with brackets (since clad fascia is recommended); avoid spikes and ferules unless they are attached to a 2x fascia board.

Pay special attention to details to avoid water getting behind the gutters. Typically the lead edge of the gutter should be at least $\frac{1}{2}$ " below the plane of the roof.

Locate downspouts so that water runs away from the buildings.

Include splash blocks on every gutter installation

MATERIALS

Seamless gutters are available in 5" and 6". Clearly specify the necessary size.

Size downspouts to match gutter size and to manage rainwater design load.

.027" thick aluminum drip edges at all eaves and rakes.

Provide .032" gutters and .024" downspouts.

If vandalism is an issue, consider using schedule 40 or even schedule 80 PVC pipe as downspouts.

Specify concrete splash blocks (large and heavy enough to prevent being carried away) at the base of downspouts unless there is an underground storm drain system.

Wood gutters are not acceptable unless they are used as a part of a historical restoration. In which case consider lining them with copper.

EXECUTION

No specific requirements other than manufacturer's recommendations and standard professional practice.

In high vandalism areas consider additional measures to insure the gutters and downspouts remain properly secured to the building.